

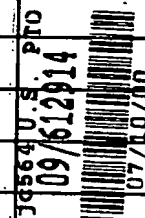
INFORMATION DISCLOSURE CITATION

PTO-1449

ATTORNEY'S DKT No.
012712-905APPLICATION NO.
Not AssignedAPPLICANT
Nabil HANNA et al.FILING DATE
July 10, 2000GROUP
Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
ICYI	4,816,567	3/28/89	Cabilly et al.	530	387	
	4,973,745	12/18/90	Schoemaker et al.	530	387	
	4,975,369	12/04/90	Beavers et al.	435	69	
ICYI	4,816,397	3/28/89	Boss et al.	435	68	



FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
ICYI	9008198	7/26/90	PCT				
	EP 0 523 949 A1	01/20/93	EUROPE				
	EP 0 451 216 B1	10/16/91	EUROPE				
ICYI	EP 0 682 040 A1	11/15/95	EUROPE				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ICYI	Jones, P.T. et al., Nature, 321:522, (1986)
	Camerini, D. and Seed, B., Cell, 60:747, (1990)
	McClure, M.O. et al., Nature 330:487, (1987)
	Truneh, A. et al., Cell. Immun., 131:98, (1990)
	Nishimura, Y. et al., Cancer Research, 47:999 (1987)
	Ward, E.S. et al., Nature, 341:544 (1989)
	Camerini, D. and Seed, B., Abstract No. T.C.P. 125, V International Conference on AIDS, pg. 587, (1989)
	Persson et al., Proc. Natl. Acad. Sci. USA, 88:2432, 1991
	Meek et al., J. Immun., 146:2434, 1991
	Allison et al., J. Immunological Methods, 95:157, 1986
	Ehrlich et al., Hybridoma, Vol. 7, No. 4, pp. 385-395, 1988
	Ehrlich et al., Clin. Chem., 34:1681, 1988
	Van Meel et al., J. Immunological Methods, 80:267, 1985
	BS Heteromycloma line, abstract
ICYI	Ehrlich et al., Hum. Antibod. Hybridomas, 1990, vol. 1, no. 1.

EXAMINER /Christopher Yaen/ (08/20/2007)

DATE CONSIDERED

08/20/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION PTO-1449				ATTORNEY'S DKT NO. 012712-905		APPLICATION NO. Not Assigned	
				APPLICANT Nabil HANNA et al.			
				FILING DATE July 10, 2000		GROUP Not Assigned	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
/CY/	Ehrlich et al., Hybridoma, Vol. 6, No. 2, pp. 151-160, 1987						
	Herpes Transformation, abstract						
	Amoroso et al., J. Immun., 145:3155, 1990						
	Huse et al., Science, 246:1275, 1989						
	Letvin, et al., Effect of Recombinant Soluble CD4 in Rhesus Monkeys Infected With Simian Immunodeficiency Virus of Macaques, Abstract from the V Int. Conf. on AIDS, 1989, p. 535.						
	Rosenberg, M. et al., <u>Biotherapy</u> , "Soluble recombinant CD4 - A potential therapeutic agent for HIV infector", 2:107, (1990)						
	Riechmann, L. et al., <u>Nature</u> , "Reshaping human antibodies for therapy", 332:323-327, (1988)						
	Houghton, A.N. et al., <u>Seminars in Oncology</u> , "Monoclonal antibodies potential applications to the treatment of cancer", 13:165, (1986).						
	Watanabe, M. et al., Proceedings of the National Academy of Sciences, 88:4616-4620, (1991).						
	Van Meurz et al. JOURNAL OF IMMUNOLOGICAL METHODS (1986) 123.						
	Morrison Science, Vol. 229, 1202 (1985)						
	Immunology Today 10:253 (1989)						
	Queen et al., PNAS 8610029 (1989)						
	Waldmann Science, Vol. 252, 1657, (1991)						
/CY/	Hied et al., Genes and cancer (1990) p. 183.						
EXAMINER /Christopher Yaen/ (08/20/2007)				DATE CONSIDERED 08/20/2007			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION PTO-1449				ATTORNEY'S DKT NO. 012712-905		APPLICATION NO. Not Assigned	
				APPLICANT Nabil HANNA et al.			
				FILING DATE July 10, 2000		GROUP Not Assigned	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
/CY/	VOPR VIRUSOL, Volume 30, No. 5, issued October 1985, Markova et al., "Monkey B lymphocyte subpopulations transformed by baboon herpes virus in vivo and in tissue cultures", pages 549-553.						
↓	Harris et al., T.B. Tech., Vol. 11, page 42 (1993)						
↓	Truneh et al., "Humoral Response of Cynomolgus Macaques to Human Soluble CD4: Antibody Reactivity Restricted to Xeno-Human Determinants" CELLULAR IMMUNOLOGY, November 1990, Vol. 131, No. 1, Pages 98-108.						
↓	Van Meurs et al. "Production of Primate Monoclonal Antibodies" JOURNAL OF IMMUNOLOGICAL METHODS, 1986, Vol. 95, pp. 123-128.						
↓	Schroeder et al. "Early Restriction of the Human Antibody Repertoire" SCIENCE, November 6, 1987, Vol. 238, Pages 791-793.						
↓	Combriato et al. "V Lambda and J Lambda-C Lambda Gene Segments of the Human Immunoglobulin Lambda Light Chain Locus are Separated by 14 KB and Rearrange by a Deletion Mechanism" EUROPEAN JOURNAL OF IMMUNOLOGY, June 1991, Vol. 21, Pages 1513-1522.						
↓	Hughes-Jones et al. "Nucleotide Sequences and Three-Dimensional Modelling of the VH and VL Domains of Two Human Monoclonal Antibodies Specific for the D Antigen of the Human RH-Blood Group System" THE BIOCHEMICAL JOURNAL, May 15, 1990, Vol. 268, No. 1, Pages 135-140.						
/CY/	Stephens et al., "Antibodies are Produced to the Variable Regions of the External Envelope Glycoprotein of Human Immunodeficiency Virus Type 1 in Chimpanzees Infected with the Virus and Baboons Immunized with a Candidate Recombinant Vaccine" THE JOURNAL OF GENERAL VIROLOGY, May 1992, Vol. 73, No. 5, Pages 1099-1106.						
EXAMINER: Christopher Yaen/ (08/20/2007)				DATE CONSIDERED 08/20/2007			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PAC FORM PAT-1449)
Patent and Trademark Office

APR 08 2003
PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

Atty.
Dkt. No.

Client Ref.

037003-0275543

1991-30-0019CP4C1

Applicant: Hanna, et al.

Appl. No.: 09/612,914

Filing Date: July 10, 2000

Examiner: Yaen, C.

Group Art Unit: 1642

Date: April 8, 2003

Page 1 of 1

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation R adily Available	
					Enclosed	No	Enclos	No
ICYI	BR 0 523 949 A1	07/1992	EP	Crowe, et al.				
✓	CR 1 266 965 A2	12/2002	EP	Newman, et al.				
	DR 1 266 965 A3	01/2003	EP	Newman, et al.				
ICYI	ER							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ICYI	FR	Combriato, G., et al., V λ and J λ -C λ gene segments of the human immunoglobulin λ light chain locus are separated by 14 kb and rearrange by a deletion mechanism, <i>Eur. J. Immunol.</i> 21:1513-1522 (1991)				
	GR	Houghton, A., et al., Monoclonal antibodies: potential applications to the treatment of cancer, <i>Seminars in Oncology</i> , 13(2):165-179 (1986)				
	HR	Hughes-Jones, N., et al., Nucleotide sequences and three-dimensional modelling of the V μ and V ν domains of two human monoclonal antibodies specific for the D antigen of the human Rh-blood-group system, <i>Biochem. J.</i> 268:135-140 (1990)				
	IR	Riechmann, L., et al., Reshaping human antibodies for therapy, <i>Nature</i> 332(6162):323-327 (Mar. 24, 1988)				
	JR	Schroeder, H., et al., Early restriction of the human antibody repertoire, <i>Science, New Series</i> , 238(4828):791-793 (Nov. 6, 1987)				
	KR	Stephens, D.M., et al., Antibodies are produced to the variable regions of the external envelope glycoprotein of human immunodeficiency virus type 1 in chimpanzees infected with the virus and baboons immunized with a candidate recombinant vaccine, <i>Journal of General Virology</i> , 73:1099-1106 (1992)				
	LR	Truneh, A., et al., Humoral response of cynomolgus macaques to human soluble CD4: antibody reactivity restricted to xeno-human determinants, <i>Cellular Immunology</i> 131:98-108 (1990)				
✓	MR	Van Meurs, G.J.E., et al., Production of primate monoclonal antibodies, <i>Journal of Immunological Methods</i> , 95:123-128 (1986)				
ICYI	NR	Watanabe, M., et al., Immunization of simian immunodeficiency virus-infected rhesus monkeys with soluble human CD4 elicits an antiviral response, <i>Proc. Natl. Acad. Sci. USA</i> , 88:4616-4620 (Jun. 1991)				

RECEIVED

APR 14 2003

TECH CENTER 1600/2900

Examiner/Christopher Yaen/ (08/20/2007)

Date Considered:08/20/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty. Dkt. No.: 037003-0275543

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants: Hanna et al.

Filing Date: July 10, 2000

Date: March 6, 2007

Page

1

of

3

Examiner: C. Yaen

Group Art Unit: 1643

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
/CY/	AR	4,976,745	11/1990	Schoemaker <i>et al.</i>	514	423	
↓	BR	4,975,369	12/1990	Beavers <i>et al.</i>	514	546	
	CR	4,816,567	03/1989	Cabilly <i>et al.</i>	548	523	
/CY/	DR	4,816,397	03/1989	Boss <i>et al.</i>	514	2	

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclosed	No
/CY/	ER	WO 90/08198	07/1990	WIPO	Letvin	Yes		Yes	
↓	* FR	WO 90/15152	12/1990	WIPO	Cobbold <i>et al.</i>	Yes		Yes	
	* GR	WO 93/02108	02/1993	WIPO	Newman <i>et al.</i>	Yes		Yes	
	* HR	EP 1266965 A2	12/2002	EPO	Newman <i>et al.</i>	Yes		Yes	
	* IR	EP 1266965 A3	01/2003	EPO	Newman <i>et al.</i>	Yes		Yes	
	JR	EP 0451216 B1	10/1991	EPO	Queen <i>et al.</i>	Yes		Yes	
↓	KR	EP 0523949 A1	01/1993	EPO	Crowe <i>et al.</i>	Yes		Yes	
	LR	EP 0682040 A1	11/1995	EPO	Queen <i>et al.</i>	Yes		Yes	
/CY/ *	MR	WO 88/07089	09/1988	WIPO	Winter <i>et al.</i>	Yes		Yes	

OTHER (Including in this order Author, Title, Periodical Name, Pertinent Pages, Date, etc.)

/CY/	NR	Proceedings of the National Academy of Sciences USA, Volume 88, Number 1, issued 1 January 1991, Watanabe <i>et al.</i> , "Soluble human CD4 elicits an antibody response in rhesus monkeys that inhibit simian immunodeficiency virus replication", pages 120-124, see abstract.
↓	OR	Surg. Gynecol. Obstet., Volume 166, Number 1, Delmonico <i>et al.</i> , "Monoclonal antibody treatment of human allograft recipients", pages 89-98, see Abstract.
	PR	Infection and Immunity, Volume 61, Number 10, issued October 1993, Lopez-Guerro <i>et al.</i> , "Modulation of adjuvant arthritis in Lewis rats by recombinant vaccinia virus expressing the human 60-kilodalton heat shock protein", pages 4225-4231, see entire document.
	QR	Dev. Comp. Immunol. Volume 17, Number 6, issued November-December 1993, Lewis <i>et al.</i> "Cloning and sequence analysis of kappa and gamma cynomolgus monkey immunoglobulin cDNAs", pages 549-560.
	RR	Biotechnology, Volume 10, Number 11, issued November 1992, Newman <i>et al.</i> , "Primatization" of recombinant antibodies for immunotherapy of human diseases: a macaque/human chimeric antibody against CD4", pages 1455-1460.
↓	SR	Jones, P.T. <i>et al.</i> , Nature 321:522 (1986)
	TR	Camerini, D. and B. Seed, Cell 60:747 (1990)
/CY/	UR	McClure, M.O. <i>et al.</i> , Nature 330:487 (1987)

Examiner /Christopher Yaen/ (08/20/2007)

Date Considered: 08/20/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty. Dkt. No.: 037003-0275543

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicants: Hanna et al.

Filing Date: July 10, 2000

Date: February 27, 2007

Page 2 of 3

Examiner: C. Yaen

Group Art Unit: 1643

/CY/	VR	Truneh et al., "Humoral Response of Cynomolgus Macaques to Human Soluble CD4: Antibody Reactivity Restricted to Xeno-Human Determinants" Cellular Immunology 131:1 (November 1990) pp. 98-108
	WR	Nishimura, Y et al., Cancer Research 47:999 (1987)
	XR	Ward, E.S. et al., Nature 341:544 (1989)
	YR	Camerini, d. and B. Seed, Abstract No. T.C.P. 125, V International Conference on AIDS, p. 587 (1989)
	ZR	Persson et al., Proc. Natl. Acad. Sci. USA 88:2432 (1991)
	AAR	Meek et al., J. Immun 146:2434 (1991)
	BBR	Allison et al, J. Immunological Methods 95:157 (1986)
	CCR	Ehrlich et al., Hybridoma, 7:4, pp. 385-395 (1988)
	DDR	Ehrlich et al., Clin. Chem. 34:1681 (1988)
	EER	Van Meel et al., J. Immunological Methods 80:267 (1985)
	FFR	BS Heteromycloma line, abstract
	GGR	Ehrlich et al., Hum Antibod. Hybridomas 1:1 (1990)
	HHR	Ehrlich et al., Hybridoma 6:2 pp.151-160 (1987)
	IIR	Herpes Transformation, abstract
	JJR	Amoroso et al., J. Immun. 145:3155 (1990)
	KKR	Huse et al., Science 246:1275 (1989)
	LLR	Letvin et al., "Effect of Recombinant Soluble CD4 in Rhesus Monkeys Infected with Simian Immunodeficiency Virus of Macaques", Abstract from the V International Conference on AIDS (1989) p. 535
	MMR	Rosenberg, M. et al., "Soluble Recombinant CD4 - A Potential Therapeutic Agent for HIV Infector", Biotherapy 2:107 (1990)
	NNR	Riechmann, L. et al., "Reshaping Human Antibodies for Therapy", Nature 332:323-327 (1988)
	OOR	Houghton, A.N. et al., "Monoclonal Antibodies Potential Applications to the Treatment of Cancer", Seminars in Oncology 13:165 (1986)
	PPR	Watanabe, M. et al., Proceedings of the National Academy of Sciences 88:4616-4620 (1991).
	QQR	Van Meurz et al., Journal of Immunological Methods (1986) p. 123.
	RRR	Morrison, Science 229:1202 (1985)
	SSR	Immunology Today 10:253 (1989)
	TTR	Queen et al., PNAS 86:10029 (1989)
	UUR	Waldmann, Science 252:1657 (1991)
	VVR	Hied et al., Genes and Cancer (1990) p. 183
/CY/	WWR	Markova et al., "Monkey B lymphocyte subpopulations transformed by baboon herpes virus in vivo and in tissue cultures", VOPR VIRUSOL 30:5 (October, 1985) pp. 549-553.

Examiner /Christopher Yaen/ (08/20/2007)

Date Considered: 08/20/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty. Dkt. No.: 037003-0275543

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants: Hanna et al.

Filing Date: July 10, 2000

Date: February 27, 2007

Page

3

of

3

Examiner: C. Yaen

Group Art Unit: 1643

/CY/	XXR	Harris et al., TB Tech, Vol. 11, p. 42 (1993)
	YYR	Van Meurs et al., "Production of Primate Monoclonal Antibodies", Journal of Immunological Methods" Vol. 95 (1986) pp. 123-128
	ZZR	Schroeder et al. "Early Restriction of the Human Antibody Repertoire" Science, Vol. 238 (November 6, 1987) pp. 791-793.
	AAAR	Combriato et al. "V Lambda and J Lambda-C Lambda Gene Segments of the Human Immunoglobulin Lambda Light Chain Locus are Separated by 14 KB and Rearrange by a Deletion Mechanism", European Journal of Immunology, Vol. 21 (June 1991) pp. 1513-1522.
	BBBR	Hughes-Jones et al. "Nucleotide Sequences and Three-Dimensional Modeling of the VH and VL Domains of Two Human Monoclonal Antibodies Specific for the D Antigen of the Human RH-Blood Group System", The Biochemical Journal 268:1 (May 15, 1990) pp. 135-140.
	CCCR	Stephens et al., "Antibodies are Produced to the Variable Regions of the External Envelope Glycoprotein of Human Immunodeficiency Virus Type 1 in Chimpanzees Infected with the Virus and Baboons Immunized with a Candidate Recombinant Vaccine", The Journal of General Virology, 73:5 (May 1992) pp. 1099-1106.
	* DDDR	L.J. Cooper, "H Chain C domains influence the strength of binding of IgG for streptococcal group A carbohydrate," J. Immunol., (Abstract), Vol. 146 (No. 8), p. 2659-63, (15 April 1991).
	* EEER	J.J. Goronzy, "T and B cell-dependent pathways in rheumatoid arthritis," Curr Opin Rheumatol., (Abstract), Vol. 7 (No. 3), p. 214-221, (May 1995).
	* FFFR	R.O. Williams, "Synergy between anti-CD4 and anti-tumor necrosis factor in the amelioration of established collagen-induced arthritis," Proc. Natl. Acad., Immunology, p. 2762-2766, (March 1994).
	* GGGR	Ellison et al., "Genbank locus P01861," Ig gamma-4chain...(Abstract),
	* HHHR	Yocum et al., "Immunomodulatory Effect of Primatized IDE-CE9, an Anti-CD4 Monoclonal Antibody, in RA," (Abstract), (October 1994).
	* IIIR	Solinger et al., "Immunological markers of response in multi-dose protocol 7002 using an immunomodulating, non-depleting primatized anti-CD4 monoclonal antibody in rheumatoid arthritis (RA)," (Abstract), (June 1996).
	* JJJR	Kaine et al., "Results of a multi-dose protocol 7002 using an immunomodulating, non-depleting primatized anti-CD4 monoclonal antibody in rheumatoid arthritis (RA)," (Abstract), (October 1995).
	* KKKR	Duncan et al., "Localization of the binding site for the human high-affinity Fc receptor on IgG," (Abstract), (April 1988).
	* LLLR	Angal et al.,
	* MMMR	Anderson et al., "A primatized MAb to human CD4 causes receptor modulation, without marked reduction in CD4+T cells in chimpanzees: in vitro and in vivo characterization of a MAb (IDEC-CE9.1) to human CD4," Clin. Immunol. and Immunopath., Academic Press, Vol. 84 (No. 1), p. 73-84, (July 1997).
↓	* NNNR	Looney et al., "Expression and characterization of cM-T413, a chimeric anti-CD4 antibody with in vitro immunosuppressive activity (Abstract)," Chem. Abstr. & Indexes, American Chemical Society (Columbus US), (24 October 1994).
/CY/	* OOOOR	Supplementary European Search Report, Appl. No. EP 96929936, 10/17/2002

Examiner

/Christopher Yaen/ (08/20/2007)

Date Considered:

08/20/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.